

Search: accession: 1993-240281



## Display from WPINDEX

ANSWER 1 © 2005 THE THOMSON CORP on STN

### Title

Treatment of surface requiring mechanical strength and abrasion resistance – comprising heat treating nickel –phosphorus alloy coating and forming composite plating layer of nickel (alloy) contg. fluoro resin particles.

### Patent Assignee

(SAMI-N) SAMIKKUSU KK; (UEMU) UEMURA KOGYO KK

### Patent Information

JP 05163582	A	19930629 (199330) *	4	C23C018-52
JP 3101669	B2	20001023 (200056)	4	C23C018-52

### Application Information

JP 1991-351552	19911212; JP 1991-351552	19911212
----------------	--------------------------	----------

### Priority Application Information

JP 1991-351552	19911212
----------------	----------

### International Patent Classification

ICM C23C018-52

ICS C25D015-02

### Abstract

JP 05163582 A UPAB: 19931119

Treatment of surface comprises forming Ni-P alloy coating on the substrate; heat-treating the Ni-P alloy coating; forming a composite plating layer of Ni or Ni alloy contg. fluororesin particles.

USE/ADVANTAGE – Applied to surface treatment where mechanical strength and abrasion resistance are required.

In an example, steel having a carbonitriding layer on the surface was coated with 10 microns of electroless Ni-P film contg. 9% of P, and was heated at 300 deg.C for 60 mins. in air. The steel was further coated with electroless Ni-P/PTFE composite film (10 microns, contg. 9% P and approx. 7 wt.% of PTFE) to heat at 300 deg.C for 60 mins. The obtd. Ni-P/PTFE coating was confirmed to have sufficient adhesiveness. The Vickers hardness of the total film was 650.

Dwg.0/1

### Accession Number

1993-240281 [30] WPINDEX

---

---

Session Cost: \$11.92

## PATENT ABSTRACTS OF JAPAN

(11)Publication number : 05-163582

(43)Date of publication of application : 29.06.1993

(51)Int.Cl.

C23C 18/52  
C25D 15/02

(21)Application number : 03-351552

(71)Applicant : C UYEMURA & CO LTD  
SAMITSUKUSU:KK

(22)Date of filing : 12.12.1991

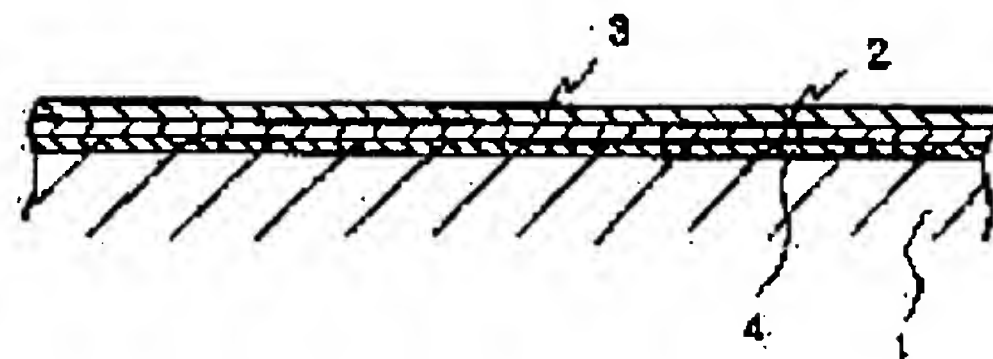
(72)Inventor : MATSUMURA MUNEYORI  
NAKAMURA TAKAYUKI  
CHIBA ITARU  
OKADA MASUO  
MATSUNAMI HIDEAKI  
AYAME MASAHIKO

## (54) TREATMENT OF SURFACE

## (57)Abstract:

PURPOSE: To form a plating film having high mechanical strength and excellent wear resistance on the surface of stock with satisfactory adhesion.

CONSTITUTION: An Ni-P alloy plating film 2 is formed on the surface of stock 1 and heat-treated. A composite plating film 3 contg. fluororesin particles codeposited in an Ni or Ni alloy plating film is then formed on the heat-treated Ni-P alloy plating film 2.



## LEGAL STATUS

[Date of request for examination]

16.10.1998

[Date of sending the examiner's decision of rejection]

[Kind of final disposal of application other than the examiner's decision of rejection or application converted registration]

[Date of final disposal for application]

[Patent number] 3101669

[Date of registration] 25.08.2000

[Number of appeal against examiner's decision of rejection]

[Date of requesting appeal against examiner's decision of rejection]

[Date of extinction of right]

Copyright (C); 1998,2003 Japan Patent Office